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February 23, 2006

Date of Deposit

Anthony P. Curtis, Ph.D., Reg. No. 46,193

Name of applicant, assignee or
Registered Representative

Signature

2/23/06
Date of Signature

Our Case No. 9281-4603
Client Ref. No. N US02004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Naoya Hasegawa et al.

Serial No. 10/619,341

Filing Date: July 14, 2003

For: MAGNETIC SENSOR WITH SECOND
ANTIFERROMAGNETIC LAYER
HAVING SMALLER DEPTH IN HEIGHT
DIRECTION THAN FREE LAYER

Examiner: Heinz, Allen J.

Group Art Unit No.: 2653

AMENDMENT

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

In response to the Office Action dated November 30, 2005, please amend the application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims begin on page 3 of this paper.

Remarks begin on page 5 of this paper.